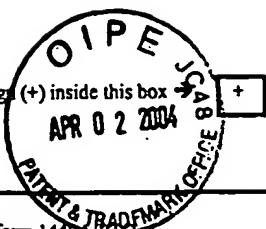


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| Substitute for form 1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | Complete if Known | |
| | | Application Number | 10/723,144 |
| | | Filing Date | November 25, 2003 |
| | | First Named Inventor | Amy L. ALLAN |
| | | Group Art Unit | 1641 |
| | | Examiner Name | Not yet assigned |
| Sheet 1 of 5 | Attorney Docket Number | ATTE-002/02US | |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|-----------------------|----------------------|-----------------------------------|---|--|
| Examiner Initials* | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY |
| | | Number | Kind Code ² (if known) | | |
| MM/ACB | P1 | 6,472,369 | | Livant | 10-29-2002 |
| | P2 | 6,001,965 | | Livant | 12-14-1999 |
| | P3 | 5,994,309 | | Mazar <i>et al.</i> | 07-25-1997 |
| | P4 | 5,970,974 | | Van der Linden <i>et al.</i> | 10-26-1999 |
| | P5 | 5,954,047 | | Amer <i>et al.</i> | 09-21-1999 |
| | P6 | 5,950,619 | | van der Linden <i>et al.</i> | 09-10-1997 |
| | P7 | 5,698,155 | | Grosswald <i>et al.</i> | 12-16-1997 |
| | P8 | 5,639,725 | | O'Reilly <i>et al.</i> | 06-17-1997 |
| | P9 | 5,627,286 | | Ramalingam <i>et al.</i> | 05-06-1997 |
| | P10 | 5,618,513 | | Srinivasan | 04-08-1997 |
| | P11 | 5,567,408 | | Zamora | 10-22-1996 |
| | P12 | 5,561,220 | | Dean | 10-01-1996 |
| | P13 | 5,556,611 | | Biesalski | 09-17-1996 |
| | P14 | 5,443,816 | | Zamora <i>et al.</i> | 08-22-1995 |
| | P15 | 5,112,598 | | Biesalski | 05-12-1992 |
| | P16 | 4,765,539 | | Noakes <i>et al.</i> | 08-23-1988 |
| | P17 | 4,683,202 | | Mullis | 07-28-1987 |
| | P18 | 3,916,899 | | Theeuwes <i>et al.</i> | 11-04-1975 |
| | P19 | 3,845,770 | | Theeuwes <i>et al.</i> | 11-05-1974 |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|-------------------------|---------------------|-----------------------------------|---|--|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY |
| | | Office ³ | Number ⁴ | Kind Code ⁵ (if known) | | |
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| Examiner Signature | <i>Manuel M Cordova Garcia</i> | Date Considered | 08/5/05 |
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| Substitute for form 149B/PTO | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | Application Number | 10/723,144 |
| | | Filing Date | November 25, 2003 |
| | | First Named Inventor | Amy L. ALLAN |
| | | Group Art Unit | 1614 |
| | | Examiner Name | Not yet assigned |
| Sheet | 2 of 5 | Attorney Docket Number | ATTE-002/02US |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | |
|---|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| mmc6 | D1 | ADELMAN <i>et al.</i> , "In Vitro Deletional Mutagenesis for Bacterial Production of the 20,000-Dalton Form of Human Pituitary Growth Hormone," <i>DNA</i> (1983), 2:183-193. | |
| | D2 | ALDERMAN, "A Review of Cellulose Ethers in Hydrophilic Matrices for Oral Controlled-Release Dosage Forms," <i>Int. J. Pharm. Tech. & Prod. Mfr.</i> (1984), 5(3) 1-9. | |
| | D3 | ALMQUIST <i>et al.</i> , "Synthesis and Biological Activity of a Ketomethylene Analogue of a Tripeptide Inhibitor of Angiotensin Converting Enzyme," <i>J. Med. Chem.</i> (1980), 23:1392 | |
| | D4 | BALDARI <i>et al.</i> , "A Novel Leader Peptide Which Allows Efficient Secretion of a Fragment of Human Interleukin 1 β in <i>Saccharomyces cerevisiae</i> ," <i>EMBO J.</i> (1987), 6:229-234 | |
| | D5 | BAMBA <i>et al.</i> , "Release Mechanisms in Gelforming Sustained Release Preparations," <i>Int. J. Pharm.</i> (1979), 2:307-315 | |
| | D6 | BEAUCAGE <i>et al.</i> , "Deoxynucleoside Phosphoramidites—A New Class of Key Intermediates for Deoxypolynucleotide Synthesis," <i>Tetrahedron Lett.</i> (1981), 22:1859 | |
| | D7 | BENJAMIN <i>et al.</i> , "Selective Ablation of Immature Blood Vessels in Established Human Tumors Follows Vascular Endothelial Growth Factor Withdrawal," <i>J. Clin. Invest.</i> (1999), 103:159-165 | |
| | D8 | BLOOD <i>et al.</i> , "Tumor Interactions with the Vasculature: Angiogenesis and Tumor Metastasis," <i>Biochim. Biophys. Acta</i> (1990), 1032:89-118 | |
| | D9 | BORGSTROM <i>et al.</i> , "Neutralizing Anti-Vascular Endothelial Growth Factor Antibody Completely Inhibits Angiogenesis and Growth of Human Prostate Carcinoma Micro Tumors In Vivo," <i>Prostate</i> (1998), 35:1-10 | |
| | D10 | BROOKS <i>et al.</i> , "Disruption of Angiogenesis by PEX, A Noncatalytic Metalloproteinase Fragment with Integrin Binding Activity," <i>Cell</i> (1998), 92:391-400 | |
| | D11 | BRUCHEZ <i>et al.</i> , "Semiconductor Nanocrystals as Fluorescent Biological Labels," <i>Science</i> (1998), 281:2013-2016 | |
| | D12 | CHAMBERS <i>et al.</i> , "Macrophage Colony-stimulating Factor Mediates Invasion of Ovarian Cancer Cells through Urokinase," <i>Canc. Res.</i> (1995), 55:1578-1585 | |
| | D13 | CHAN <i>et al.</i> , "Quantum Dot Bioconjugates for Ultrasensitive Nonisotopic Detection," <i>Science</i> (1998), 281:2016-2018 | |
| | D14 | CHOREV <i>et al.</i> , "Partially Modified Retro-Inverso-Enkephalinamides: Topochemical Long-Acting Analogs in vitro and in vivo," <i>Science</i> (1979), 204:1210-1212 | |
| | D15 | CROWLEY <i>et al.</i> , "Prevention of Metastasis by Inhibition of the Urokinase Receptor," <i>Proc. Natl. Acad. Sci USA</i> (1993), 90:5021-5025 | |
| | D16 | DURING <i>et al.</i> , "Controlled Release of dopamine from a Polymeric Brain Implant: In Vivo Characterization," <i>Ann. Neurol.</i> (1989) 25:351 | |
| mmc6 | D17 | EDGE, "Total Synthesis of a Human Leukocyte Interferon Gene," <i>Nature</i> (1981), 292:756-762 | |

EX: Mueli M. L. Jones

DATE CONSIDERED 8/05/05

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | |
|---|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| mmk | D18 | FOLKMAN, "Anti-Angiogenesis: New Concept for Therapy of Solid Tumors," <i>Ann. Surg.</i> (1972), 175:409-416 | |
| | D19 | FOLKMAN, "The Influence of Angiogenesis Research on Management of Patients with Breast Cancer," <i>Breast Cancer Res. Treat.</i> (1995), 36(2):109-118 | |
| | D20 | FOLKMAN, "Angiogenesis Inhibitors Generated by Tumors," <i>Mol. Med.</i> (1995), 1(2):120-122; | |
| | D21 | GIANNIS <i>et al.</i> , "Peptidomimetics in Drug Design," <i>Adv. In Drug Res.</i> (1997), 29:1-78 | |
| | D22 | GLUZMAN, "SV40-Transformed Simian Cells Support the Replication of Early SV40 Mutants," <i>Cell</i> (1981), 23:175-182 | |
| | D23 | GOODSON, "Medical Application of Controlled Release" 2:115-138 (1984) | |
| | D24 | GORELIK <i>et al.</i> , "Control of Lung Metastasis Progression in Mice: Role of Growth Kinetics of 3LL Lewis Lung Carcinoma and Host Immune Reactivity," <i>J. Nat'l Canc. Inst.</i> , (1980), 65:1257-1264 | |
| | D25 | GORELIK <i>et al.</i> , "Host's Immune State and Kinetics of Local Tumor Growth Control - Progression of Postoperative Lung Metastasis," <i>Rec. Results Canc. Res.</i> (1980), 75:20-28 | |
| | D26 | HANAHAN <i>et al.</i> , "Patterns and Emerging Mechanisms of the Angiogenic Switch during Tumorigenesis," <i>Cell</i> (1996), 86(3):353-364 | |
| | D27 | HILGARD <i>et al.</i> , "Oral Anticoagulation in the Treatment of a Spontaneously Metastasising Murine Tumour (3LL)," <i>Br. J. Cancer</i> (1977), 35:78-86 | |
| | D28 | HOLLADAY <i>et al.</i> , "Synthesis of Hydroxyethylene and Ketomethylene Dipeptide Isosteres," <i>Tetrahedron Lett.</i> (1983), 24:4401-4404 | |
| | D29 | HOWARD <i>et al.</i> , "Intracerebral drug delivery in rats with lesion-induced memory deficits," <i>J. Neurosurg.</i> (1989), 71:105-112 | |
| | D30 | HRUBY, "Conformational Restrictions of Biologically Active Peptides Via Amino Acid Side Chain Groups," <i>Life Sci.</i> (1982), 4:189-199 | |
| | D31 | HRUBY, "Conformational and Topographical Considerations in the Design of Biologically Active Peptides," <i>Biopolymers</i> (1993), 33:1073-1082 | |
| | D32 | ISAKOV <i>et al.</i> , "An Immune Response against the Alloantigens of the 3LL Lewis Lung Carcinoma Prevents the Growth of Lung Metastases, but Not of Local Allografts," <i>Invasion Matas.</i> (1982) 2:12-32 | |
| | D33 | JAY, "Chemical Synthesis of a Biologically Active Gene for Human Immune Interferon- γ ," <i>J. Biol. Chem</i> (1984), 259:6311-6317 | |
| | D34 | JENNING-WHITE <i>et al.</i> , "Synthesis of Ketomethylene Analogs of Dipeptides," <i>Tetrahedron Lett.</i> (1982), 23:2533-2534 | |
| | D35 | KAUFMAN <i>et al.</i> , "Translational Efficiency of Polycistronic mRNAs and their Utilization to Express Heterologous Genes in Mammalian cells," <i>EMBO J.</i> , (1987), 6:187-195 | |
| | D36 | KLEINMAN <i>et al.</i> , "Basement Membrane Complexes with Biological Activity," <i>Biochemistry</i> (1986), 25:312-318 | |
| | D37 | KURJAN <i>et al.</i> , "Structure of a Yeast Pheromone Gene (MF α): A Putative α -Factor Precursor Contains Four Tandem Copies of Mature α -Factor," <i>Cell</i> , (1982), 30:933-943 | |
| mmk | D38 | LANGER <i>et al.</i> , "Chemical and Physical Structure of Polymers as Carriers for Controlled Release of Bioactive Agents: A Review," <i>J. Macromol. Sci. Rev. Macromol Chem.</i> , (1983), 23:61 | |

EX: Mark M. Loh Jr. DATE CONSIDERED: 8/05/05

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | |
|---|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| mmc6 | D39 | LANGER, "New Methods of Drug Delivery," <i>Science</i> , (1990), 249:1527-1533 | |
| | D40 | LEVY <i>et al.</i> , "Inhibition of Calcification of Bioprosthetic Heart Valves by Local Controlled-Release Diphosphonate," <i>Science</i> , (1985) 228:190 | |
| | D41 | LUCKLOW <i>et al.</i> , "High Level Expression of Nonfused Foreign Genes with <i>Autographa californica</i> Nuclear Polyhedrosis Virus Expression Vectors," <i>Virology</i> (1989), 170:31-39 | |
| | D42 | MALAVE <i>et al.</i> , "Influence of Inoculation Site on Development of the Lewis Lung Carcinoma and Suppressor Cell Activity in Syngeneic Mice," <i>J. Nat'l. Canc. Inst.</i> (1979), 62:83-88 | |
| | D43 | MATTEUCCI <i>et al.</i> , "Synthesis of Deoxyoligonucleotides on a Polymer Support," <i>J. Am. Chem Soc.</i> (1981), 103:3185 | |
| | D44 | MAXAM <i>et al.</i> , "Nucleic Acids," <i>Meth. Enzymol.</i> (1980), 65:499-560 | |
| | D45 | MERRIFIELD, "Solid Phase Peptide Synthesis. I. "The Synthesis of a Tetrapeptide," <i>J. Amer. Chem. Soc.</i> (1963), 85:2149-54 | |
| | D46 | MESSING <i>et al.</i> , "A System for Shotgun DNA Sequencing," <i>Nucleic Acids Res.</i> (1981), 9:309 | |
| | D47 | MILLAUER <i>et al.</i> , "Dominant-Negative Inhibition of Flk-1 Suppresses the Growth of Many Tumor Types <i>in Vivo</i> ," <i>Cancer Res.</i> (1996), 56:1615-1620 | |
| | D48 | MIN <i>et al.</i> , "Urokinase Receptor Antagonists Inhibit Angiogenesis and Primary Tumor Growth in Syngeneic Mice," <i>Cancer Res.</i> (1996), 56:2428-2433 | |
| | D49 | MOORE <i>et al.</i> , "Design and Pharmacology of Peptide Mimetics," <i>Adv. In Pharmacol.</i> (1995), 33:91-141 | |
| | D50 | NAMBAIR <i>et al.</i> , "Total Synthesis and Cloning of a Gene Coding for the Ribonuclease S Protein," <i>Science</i> (1984), 223:1299-1301 | |
| | D51 | NGUYEN <i>et al.</i> , "Quantitation of Angiogenesis and Antiangiogenesis in the Chick Embryo Chorioallantoic Membrane," <i>Microvascular Res.</i> (1994), 47:31-40 | |
| | D52 | ODEDRA <i>et al.</i> , "Low Molecular Weight Angiogenesis Factors," <i>Pharmac. Ther.</i> (1991), 49:111-124 | |
| | D53 | OLSON <i>et al.</i> , "Concepts and Progress in the Development of Peptide Mimetics," <i>J. Med. Chem.</i> (1993), 36:3039 | |
| | D54 | O'REILLY <i>et al.</i> , "Endostatin: An Endogenous Inhibitor of Angiogenesis and Tumor Growth," <i>Cell</i> (1997), 88:277-285 | |
| | D55 | O'REILLY <i>et al.</i> , "Angiostatin: A Novel Angiogenesis Inhibitor That Mediates the Suppression of Metastases by a Lewis Lung Carcinoma," <i>Cell</i> (1994), 79:315-328 | |
| | D56 | PARISH <i>et al.</i> , (1992), "A Basement-Membrane Permeability Assay Which Correlates With The Metastatic Potential of Tumour Cells," <i>Int. J. Cancer</i> 52:378-383 | |
| | D57 | PASSANITI <i>et al.</i> , "A Simple, Quantitative Method for Assessing Angiogenesis and Antiangiogenic Agents Using Reconstructed Basement Membrane, Heparin, and Fibroblast Growth Factor," <i>Lab Invest.</i> (1992), 67:519-528 | |
| | D58 | RABBANI <i>et al.</i> , "Prevention of Prostate-Cancer Metastasis <i>In Vivo</i> by a Novel Synthetic Inhibitor of Urokinase-Type Plasminogen Activator (uPA)" <i>Int. J. Cancer</i> (1995), 63:840-845 | |
| mmc6 | D59 | SANGER, "DNA sequencing with chain-terminating inhibitors," <i>Proc. Natl. Acad. Sci. USA</i> (1977), 74:5463-5467 | |

EXAMINER: *Manuel M. Under Jr*

DATE CONSIDERED: 8/5/8

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | |
|---|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| mmc6 | D60 | SAUDEK <i>et al.</i> , "A Preliminary Trial of the Programmable Implantable Medication System for Insulin Delivery," <i>N. Engl. J. Med.</i> (1989), 321:574 | |
| | D61 | SCHNAPER <i>et al.</i> , "Plasminogen Activators Augment Endothelial Cell Organization In Vitro by Two Distinct Pathways," <i>J. Cell. Physiol.</i> (1995), 165:107-118 | |
| | D62 | SCHOCKLEY <i>et al.</i> , "Penetration of Tumor Tissue by Antibodies and Other Immunoproteins," <i>Ann. N.Y. Acad. Sci.</i> (1991), 617:367-382 | |
| | D63 | SCHULTZ <i>et al.</i> , "Expression and secretion in yeast of a 400-kDa envelope glycoprotein derived from Epstein-Barr virus," <i>Gene</i> , (1987), 54:113-123 | |
| | D64 | SEFTON, "Implantable Pumps," <i>CRC Crit. Ref. Biomed. Eng.</i> (1987), 14:201 | |
| | D65 | SMITH <i>et al.</i> , "Production of Human Beta Interferon in Insect Cells Infected with a Baculovirus Expression Vector," <i>Mol. Cell Biol.</i> (1983), 3:2156-2165 | |
| | D66 | SPATOLA, "Chemistry and Biochemistry of Amino Acids, Peptides and Proteins," B. Weinstein, (eds.), Marcel Dekker, New York, (1983) 267-357 | |
| | D67 | SPATOLA <i>et al.</i> , "Structure-Activity Relationships of Enkephalins Containing Serially Replaced Thiomethylene Amide Bond Surrogates," <i>Life Sci.</i> (1986), 38:1243-1249 | |
| | D68 | TALMADGE <i>et al.</i> , "Enhanced Metastatic Potential of Tumor Cells Harvested From Spontaneous Metastases of Heterogeneous Murine Tumors," <i>J. Nat'l. Canc. Inst.</i> (1982), 69:975-980 | |
| | D69 | THAKUR <i>et al.</i> , "Indium-111-labeled leukocytes for the localization of abscesses: preparation, analysis, tissue distribution, and comparison with gallium-67 citrate in dogs," <i>J. Lab. Clin. Med.</i> (1977), 89:217-228 | |
| | D70 | TREAT <i>et al.</i> , "Liposomes in the Therapy of Infectious Diseases and Cancer", Lopez-Berestein and Fidler (eds.), Liss, New York, pp. 353-365 (1989) | |
| | D71 | VERMA <i>et al.</i> , "Osmotically Controlled Oral Drug Delivery," <i>Drug Dev. Ind. Pharm.</i> (2000), 26:695-708 | |
| | D72 | VERSCHOYLE <i>et al.</i> , "Pharmacokinetics of Isotretinoin (ISO) in Rats following Oral Dosing or Aerosol Inhalation," <i>British J. Cancer</i> (1999), 80 Suppl. 2, 96 | |
| | D73 | VOLPERT <i>et al.</i> , "Captopril Inhibits Angiogenesis and Slows the Growth of Experimental Tumors in Rats," <i>J. Clin. Invest.</i> (1996), 98:671-679 | |
| | D74 | WILEY <i>et al.</i> , "Peptidomimetics Derived from Natural Products," <i>Med Res. Rev.</i> (1993), 13:327-384 | |
| | D75 | XING <i>et al.</i> , "Overexpression of Urokinase Receptor in Breast Cancer Cells Results In Increased Tumor Invasion, Growth and Metastasis," <i>Int. J. Cancer</i> (1996), 67:423-429 | |
| | D76 | ZOLLER <i>et al.</i> , "Oligonucleotide-directed mutagenesis using M13-derived vectors: an efficient and general procedure for the production of point mutations in any fragment of DNA," <i>Nucleic Acids Res.</i> (1982), 10:6487-6500 | |

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|--------------------|--------------------------|-----------------|----------|
| Examiner Signature | <i>Maureen M. Cordes</i> | Date Considered | 08/05/05 |
|--------------------|--------------------------|-----------------|----------|

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